

FORM PTO - 1449		ATTORNEY DOCKET NO.: VXM-001C	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Vitaliano et al.	
		SERIAL NO.: 10/660,976	
		FILING DATE: September 11, 2003 GROUP: 1631	
	C4	Benjamin et al. (date unknown) "Towards Quantum Information Technology," www.qubit.org/library/intros/nano/nano.html	
	C5	Blatt, R. (2001) "Delicate information," <i>Nature</i> 412: 773.	
	C6	Borbat et al. (April 19, 2002) "Protein Structure Determination Using Long-Distance Constraints from Double-Quantum Coherence ESR: Study of T4 Lysozyme," <i>J. Am. Chem. Soc.</i> 124: 5304-5314.	
	C7	Brown J. (2000) "Minds, Machines and the Multiverse (The Quest for the Quantum Computer)," Chapter 1, Simon & Schuster 2000	
	C8	Cheetham et al. (1996) "Inhibition of hsc70-catalysed clathrin uncoating by HSP1 proteins," <i>Biochem J.</i> 319: 103-108.	
	C9	Claeysen et al. (November 18, 2002) "A Single Mutation in the 5-HT ₄ Receptor (5-HT ₄ -R D100(3.32)A) Generates a G _s -coupled Receptor Activated Exclusively by Synthetic Ligands (RASSL)," <i>Journal of Biological Chemistry</i> 278: 699-702	
	C10	Claing et al. (2001) β -Arrestin-mediated ADP-ribosylation Factor 6 Activation and β_2 -Adrenergic Receptor Endocytosis," <i>Journal of Biological Chemistry</i> 276: 42509-42513	
	C11	Coward et al. (1998) "Controlling signaling with a specifically designed G _i -coupled receptor," <i>Proc. Natl. Acad. Sci. USA</i> 95: 352-357	
	C12	Crotzer, V. L. et al. (2001) "The Role and Regulation of Clathrin in T cell Receptor Internalization," (Abstract) www.midwconferimmunol.org/Midwinter01/posters/crotzer.html	
	C13	Deutsch et al. (1998) "Quantum Computation," www.qubit.org/library/intros/PhysicsWorld/PhysicsWorld.html , Page 1 only.	
	C14	De Martini et al. (October 24, 2002) "Experimental realization of the quantum universal NOT gate," <i>Nature</i> 419: 815-818	
	C15	DiVincenzo, D. (1996) "Gates and Circuits: Sleator-Weinfurter construction: $V^2=U$," <i>Phil Trans. R. Soc. Lond. A</i> : 9-18.	
	C16	DiVincenzo, D. (1997) "Quantum Gates and Circuits," <i>Phil Trans. R. Soc. Lond. A</i> , Submitted	
	C17	DiVincenzo, D. (1998) "Real and realistic quantum computers," <i>Nature</i> 393: 113-114.	
	C18	Dowling et al. (date unknown) "Electron-Nuclear-Double-Resonance Quantum Computer"	
	C19	Follstaedt et al. (2000) "Protein Adhesion on SAM Coated Semiconductor Wafers: Hydrophobic Versus Hydrophilic Surfaces," Sandia Report SAND_2000-3016	
	C20	Gad, H. et al. (2000) "Fission and uncoating of synaptic clathrin-coated vesicles are per turbed by disruption of interactions with the SH3 domain of endophilin," <i>Nature</i> 27:301-312 (Abstract only)	
	C21	Gad, H. (2000) "Synaptic vesicle endocytosis studied in a living synapse," (Ph.D. Thesis) Karolinska Institute. (conclusions drawn from Ph.D. thesis)	
	C22	Gershenfeld et al. (1998) "Quantum Computing with Molecules," <i>Scientific American</i> . June 1998 (www.media.mit.edu/physics/publications/papers/98.06.sciam/0698gershenfeld.html)	

No
DATE

FORM PTO - 1449		ATTORNEY DOCKET NO.: VXM-001C	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Vitaliano et al.	
		SERIAL NO.: 10/660,976	
		FILING DATE: September 11, 2003 GROUP: 1631	
<i>DM</i>	C23	Gisin, N. (October 24, 2002) "NOT logic," <i>Nature</i> 419: 797-798.	
<i>DM</i>	C24	Greene et al. (2000) "Complete Reconstitution of Clathrin Basket Formation with Recombinant Protein Fragments: Adaptor Control of Clathrin Self-Assembly," <i>Traffic</i> 1: 69-75.	
	C25	Hameroff, S. (date unknown) "What is Consciousness," www.consciousness.arizona.edu/hameroff/slide%20show/slideshow_6.htm	
	C26	Hameroff, S. (date unknown) "Quantum computation in brain microtubules? The Penrose-Hameroff "Orch OR" model of consciousness," www.consciousness.arizona.edu/hameroff/Pen-Ham/Orch_OR/Royal%20Society.htm	
<i>DM</i>	C27	Hameroff et al (1998) "Quantum Theory and Human Consciousness," 47-62	
	C28	Hardy et al. (2000) "Universal Manipulation of a Single Qubit," Centre for Quantum Computation, Clarendon Laboratory, Department of Physics, University of Oxford.	
	C29	Harneit et al. (date unknown) "N@C ₆₀ for Quantum Computing," ...	
	C30	Harneit et al. (July 20, 2002) "Architectures for a Spin Quantum Computer Based on Endohedral Fullerenes," <i>Phys. Stat. Sol.</i> 233: 453-461.	
	C31	Haucke V., "Molecular Mechanisms of Endocytosis," INABIS '98	
	C32	Henderson et al. (date unknown) "CQC Introductions: Quantum Entanglement," www.qubit.org/library/intros/entang/index.html	
	C33	Hubbell et al. (1998) "Recent advances in site-directed spin labeling of proteins," <i>Current Opinion in Structural Biology</i> 8: 649-656	
	C34	Jaksch et al. (date unknown) "Review of quantum computer implementations with quantum optical systems," Institute for Theoretical Physics, Innsbruck (PowerPoint Presentation)	
	C35	Kanaseki et al. (1969) "The Vesicle in a Basket: A Morphological Study of the Coated Vesicle Isolated from the Nerve Endings of the Guinea Pig Brain, with Special Reference to the Mechanism of Membrane Movements," <i>Journal of Cell Biology</i> 42: 202-220.	
	C36	Keen, description of Keen laboratory research	
	C37	Kirchhausen, T. et al. (1997) "Linking cargo to vesicle formation: receptor tail interactions with coat proteins," <i>Current Opinion in Cell Biology</i> 9: 488-495	
	C38	Koruga, D. (date unknown) "From Natural to Artificial Molecular Machines," (Abstract 6 th Foresight from the Conference on Molecular Monotechnology) www.foresight.org/Conferences/MNT6/Abstracts/Koruga/	
	C39	Laflamme et al. (August 22, 2002) "NMR GHZ" (www.arxiv.org)	
	C40	Leuenberger et al. (2001) "Quantum computing in molecular magnets," Department of Physics and Astronomy, University of Basel, Switzerland.	
<i>Y</i>	C41	Liu et al. (1995) "Regulation of Clathrin Assembly and Trimerization Defined Using Recombinant Triskelion Hubs," <i>Cell</i> 83: 257-267	

ND

VATE

ND DATE

FORM PTO - 1449		ATTORNEY DOCKET NO.: VXM-001C	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Vitaliano et al.	
		SERIAL NO.: 10/660,976	
		FILING DATE: September 11, 2003 GROUP: 1631	
<i>RM</i>	C42	Liu et al. (2001) "Observation of coherent optical information storage in an atomic medium using halted light pulses," <i>Nature</i> 409: 490-493	
	C43	Loss, D. (date unknown) "Spin-based Quantum Information Processing in Nanostructures," Department of Physics, University of Basel, Switzerland - (PowerPoint Presentation)	NO DATE
<i>RM</i>	C44	Mekis, A. et al. (1995) "Ray chaos and Q-spoiling in Lasing Droplets," <i>Phys. Rev. Lett.</i> 75: 2682-2686	
<i>RM</i>	C45	Mullins, J. (2001) "The Topsy Turvey World of Quantum Computing," <i>IEEE Spectrum</i> : 42-49.	
	C46	Myers, T. (date unknown) "From NANDS to Neurons: A Look at Alternative Approaches to Information Processing," www.cs.wayne.edu/~tom/csc888/csc888.html	NO DATE
<i>RM</i>	C47	Nöckel, J. U. et al. (1996) "Chaotic Light: A Theory of Asymmetric Resonant Cavities," Optical Processes in Microactivities, World Scientific Publishers, 1996	
<i>RM</i>	C48	Nöckel, J. U. et al. (1994) "Q-spoiling and Directionality in Deformed Ring Cavities," <i>Optics Letters</i> 19: 1693-1695	
<i>RM</i>	C49	Oskin et al. (January 2002) "A Practical Architecture for Reliable Quantum Computers," <i>Computer</i> : 79-87.	
<i>RM</i>	C50	Owen, D.J. (2000) "The structure and function of the β 2-adaptin appendage domain," <i>EMBO Journal</i> 19: 4216-4227	
	C51	Pan et al. (date unknown) "A Precision Technology for Controlling Protein Adsorption and Cell Adhesion in Biomems," (manuscript)	NO DATE
<i>RM</i>	C52	Preskill, J. (1997) "Reliable Quantum Computers," (manuscript) California Institute of Technology. (www.arxiv.org)	
	C53	Redfern, C. (1999) "Conditional expression and signaling of a specifically designed G_i -coupled receptor in transgenic mice," <i>Nature Biotechnology</i> 17: 165-169	
	C54	Recher et al. (2000) "Quantum Dot as Spin Filter and Spin Memory," <i>Physical Review Letters</i> : 85 1962-1965.	
	C55	Rieffel et al. (2000) "An Introduction to Quantum Computing for Non-Physicists," <i>ACM Computing Surveys</i> 32: 300-335.	
	C56	Searce-Levie et al. (2001) "Engineering receptors activated solely by synthetic ligands (RASSLs)," <i>Trends in Pharmacological Sciences</i> 22: 414-420	
<i>RM</i>	C57	Shih, W. et al. (1995) "A Clathrin-binding Site in the Hinge of the β 2 Chain of Mammalian AP-2 Complexes," <i>The Journal of Biological Chemistry</i> 270: 31083-31090.	
	C58	Smith, T. (date unknown) "Why do I like Clifford Algebras?," www.innerx.net/personal/tsmith/clfp.html	NO DATE
	C59	Smith, T. (date unknown) "Quantum Consciousness," www.innerx.net/personal/tsmith/QuanCon.html	NO DATE
<i>RM</i>	C60	Steane, A. (1996) "Quantum Error Correction," www.qubit.org/library/intros/QEC.html	

FORM PTO - 1449		ATTORNEY DOCKET NO.: VXM-001C	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Vitaliano et al.	
		SERIAL NO.: 10/660,976	
		FILING DATE: September 11, 2003 GROUP: 1631	
Non	C61	Steane, A. (1997) "Quantum Computing," Department of Atomic and Laser Physics, University of Oxford, Clarendon Laboratory: 1-65.	
	C62	Steane, A. (1998) "Quantum Computing," <i>Reports on Progress in Physics</i> 61: 117-173	
	C63	Steane et al. (2000) "Physicists Triumph at Guess My Number," <i>Physics Today</i> , 35-39	
	C64	Takei et al. (1998) "Generation of Coated Intermediates of Clathrin-Mediated Endocytosis on Protein-Free Liposomes," <i>Cell</i> 94: 131-141	
↓	C65	Twamley, J. (October 30, 2002) "Quantum cellular automata quantum computing with endohedral fullerenes," (manuscript) (www.arxiv.org)	
	C66	Van Koppen, C. J. (date unknown) "Multiple pathways for the dynamin-regulated internalization of muscarinic acetylcholine receptors" (Abstract)	
Non	C67	Vitaliano, F. (2001) "The Next Big Thing That Will Change Absolutely Everything," www.vxm.com/Speed.quantum.html	
	C68	Vitaliano, F. (June 18, 2002) "VXMaia: A New Quantum Computing System," (PowerPoint Presentation)	
	C69	Vitaliano, F. (October 23, 2002) "VXMaia: A New Quantum Computing System for Biotech," (PowerPoint Presentation)	
	C70	Vitaliano, F. (February 2003) "VXMaia: A New Quantum Computing Platform" (PowerPoint Presentation)	
	C71	Vitaliano, F. (September 2003) "EXQOR: A New NBIC Platform" (PowerPoint Presentation)	
	C72	Vitaliano, F. (February 2004) "ExQor: A New NBIC Platform"	
	C73	Vitaliano et al. (January 29, 2004) "Clathrin and Endocytosis" (PowerPoint Presentation)	
	C74	Volovich I.V. (1999) "Atomic Quantum Computer," (manuscript) (www.arxiv.org)	
	C75	Vrijen et al. (1999) "Electron Spin Resonance Transistors for Quantum Computing in Silicon-Germanium Hetero-structures," (manuscript) (www.orxiv.org)	
	C76	Ybe et al. (1998) "Clathrin self-assembly is regulated by three light-chain residues controlling the formation of critical salt bridges," <i>The EMBO Journal</i> 17: 1297-1303.	
↓	C77	Ybe et al. (1999) "Clathrin Structure Reveals Motifs for Self Assembly," www.als.lbl.gov/als/science/sci_archive/clathrin.html	
	C78	Ybe et al. (date unknown) "Crystal structure of a repeating superhelix motif in the clathrin triskelion leg,"	
Non	C79	Ybe et al. (2000) "Molecular Structures of Proteins Involved in Vesicle Fusion," <i>Traffic</i> 1: 474-479.	
	C80	"Adaptin β ", (date unknown) Catalog number A35620. Transduction Laboratories, 133 Venture Court, Lexington, KY 40511-2624	
	C81	"Basic EPR Theory" (date unknown)	

NO
DATENO
DATE

NO DATE

NO DATE

FORM PTO - 1449		ATTORNEY DOCKET NO.: VXM-001C
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Vitaliano et al.
		SERIAL NO.: 10/660,976
		FILING DATE: September 11, 2003 GROUP: 1631
C82	Centre for Quantum Computation, www.qubit.org (date unknown)	NO DATE
C83	"Continuous Wave ENDOR," (date unknown)	NO DATE
C84	"Electron Spin Resonance (ESR)," (2000) Physics 77, Experiment 6	NO DATE
C85	"EPR Continuous Wave Practice Page," www.bruker-biospin.com/brukerepr/continuouswavepractice.html (date unknown)	NO DATE
C86	"Genecard for gene CLTCL1," www.rzpd.de/cgi-bin/cards/carddisp?CLTCL1 (date unknown)	NO DATE
C87	"Introduction to Mass Spectrometry," masspec.scripps.edu/information/intro/chapter3.html (date unknown)	NO DATE
C88	"pET-15b Vector," (1998), Novagen Catalog	
C89	"pET-23a-d(+) Vectors," (1998), Novagen Catalog	
C90	"QIAexpress - The Complete System," Qiagen Catalog www.qiagen.com/catalog/auto/cget.asp?p=QIAexpress_complete_system (date unknown)	
C91	"Quantum Entanglement: Recent Developments in Teleportation/Entanglement," www.cakes.mcmill.com/StarTrek/teleportation.htm (date unknown)	NO DATE
C92	"Receptor Mediated Endocytosis," www.erin.utoronto.ca/~w3bio315/RME.htm (date unknown)	NO DATE
C93	"Simple quantum gates," www.qubit.org/library/intros/comp/inset2.html (date unknown)	NO DATE
C94	"Universal gates," http://planck.thphys.may.ie/jtwamley/thesis/Hovland/thesis/node17.shtml (date unknown)	NO DATE
C95	Harheit, W. (2001) "A fullerene-based electron spin quantum computer," (manuscript)	
EXAMINER <i>Kate Zj</i>		DATE CONSIDERED 5/29/06